

**FIG.1**

Diagram illustrating a color filter array (12) structure. The array consists of a sequence of subpixels (R, Gb, R, Gb, R, Gb) and vertical red (VR) and blue (BR) lines. A source S is connected to the R and Gb subpixels. A horizontal line HR is at the bottom.

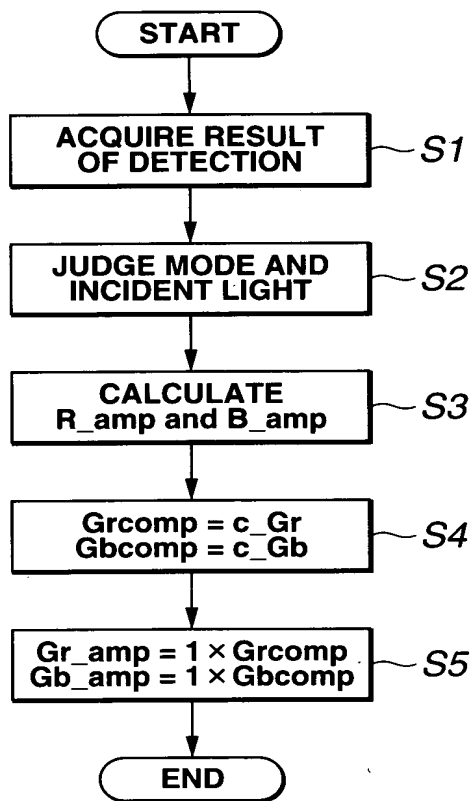
← R Gr R Gr R Gr Gb B Gb B Gb B

**FIG.3**



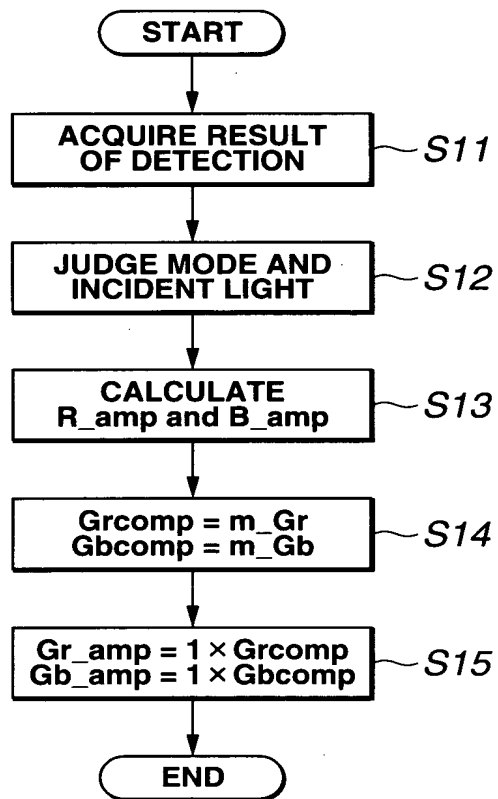
**FIG.5**

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**FIG.6**

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**FIG.7**

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graph TD
    Start([START OF COMPENSATION FACTOR DETERMINING ROUTINE]) --> S21[ACQUIRE RESULT OF DETECTION]
    S21 --> S22["m_Gr = G/Gr  
m_Gb = G/Gb"]
    S22 --> S23[WRITE m_Gr AND m_Gb TO MEMORY]
    S23 --> End([END])

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graph TD; START([START]) --> S31[ACQUIRE RESULT OF DETECTION]; S31 --> S32[JUDGE MODE AND INCIDENT LIGHT]; S32 --> S33[CALCULATE R_amp and B_amp]; S33 --> S34["Grcomp = G/Gr  
Gbcomp = G/Gb"]; S34 --> S35[APPLY LPF TO Grcomp AND Gbcomp]; S35 --> S36[LIMIT Grcomp AND Gbcomp]; S36 --> S37["Gr_amp = 1 x Grcomp  
Gb_amp = 1 x Gbcomp"]; S37 --> END([END]);
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**FIG.9**